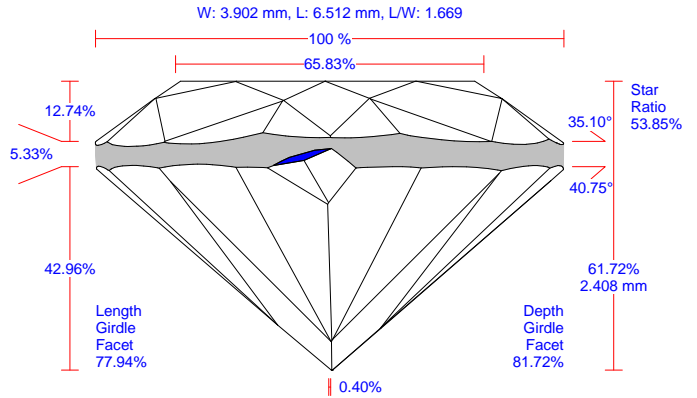


Full report for rounded fancies

Marquise

General information

Model Simple
 Expert name Makoed A.G.
 Report date 10.06.2009
 Real weight, ct
 Calculated weight, ct 0.36, 0.3634
 Spread 0.05 ct, 12.16%
 Extra Facet Girdle / Nat Yes (2)
 Extra Facet Crown No
 Extra Facet Pavilion Yes (3)
 Appraiser title AGS_2005
 Overall cut quality N/A
 Symmetry appraiser title Internal
 Overall symmetry quality PR



Main parameters

Width	Length	Ratio (L/W)	Girdle Ratio	Diameter Minimum	Diameter Maximum	Total height	MIC
3.902 mm	6.512 mm	1.669	1.669	3.902 mm	6.512 mm	2.408 mm	3.901 mm

Parameter		Avg	Min	Max	Dev	Cut	Sym
Diameter	mm		3.902	6.512	2.610	N/A	
Radius	mm	2.369	1.951	3.289	1.338		
Radius	%	60.72	49.99	84.28	34.29		
Crown curve angle	°	35.10	34.75	35.45	0.70		
Crown head angle	°	N/A	N/A	N/A	N/A		
Crown point angle	°	25.09	24.82	25.36	0.53		
Crown wing angle	°	33.44	33.31	33.58	0.27		
Crown curve height	%	12.88	12.72	13.03	0.32		
Crown curve height	mm	0.502	0.496	0.509	0.012		
Crown head height	%	N/A	N/A	N/A	N/A		
Crown head height	mm	N/A	N/A	N/A	N/A		
Crown point height	%	11.99	11.68	12.30	0.62		
Crown point height	mm	0.468	0.456	0.480	0.024		
Crown wing height	%	12.57	12.23	12.87	0.65		
Crown wing height	mm	0.491	0.477	0.502	0.025		
Crown mains angle (obsolete)	°	35.10	34.75	35.45	0.70	N/A	VG
Crown nock angle (obsolete)	°	25.09	24.82	25.36	0.53		
Crown other angle (obsolete)	°	33.44	33.31	33.58	0.27		
Crown height	%	12.74	12.01	13.22	1.21	N/A	VG
Crown height	mm	0.497	0.469	0.516	0.047		
Crown height bone	%	12.00	11.03	13.05	2.01		
Crown height bone	mm	0.468	0.431	0.509	0.079		
Crown height at girdle minima	%	13.10	12.09	13.95	1.86	N/A	
Crown height at girdle minima	mm	0.511	0.472	0.544	0.072		
Pavilion curve angle	°	40.75	40.56	40.95	0.39		
Pavilion head angle	°	N/A	N/A	N/A	N/A		
Pavilion point angle	°	N/A	N/A	N/A	N/A		
Pavilion wing angle	°	36.96	36.72	37.24	0.53		
Pavilion curve height	%	40.54	40.43	40.65	0.21		
Pavilion curve height	mm	1.582	1.578	1.586	0.008		
Pavilion head height	%	N/A	N/A	N/A	N/A		
Pavilion head height	mm	N/A	N/A	N/A	N/A		
Pavilion point height	%	N/A	N/A	N/A	N/A		
Pavilion point height	mm	N/A	N/A	N/A	N/A		
Pavilion wing height	%	41.15	40.29	41.98	1.69		
Pavilion wing height	mm	1.606	1.572	1.638	0.066		
Pavilion mains angle (obsolete)	°	40.75	40.56	40.95	0.39	N/A	EX
Pavilion nock angle (obsolete)	°	N/A	N/A	N/A	N/A		
Pavilion other angle (obsolete)	°	36.96	36.72	37.24	0.53		
Pavilion depth	%	42.96	42.63	43.48	0.85	N/A	VG
Pavilion depth	mm	1.676	1.663	1.697	0.033		
Pavilion depth bone	%	43.75	42.63	45.61	2.98		
Pavilion depth bone	mm	1.707	1.663	1.780	0.116		
Pavilion depth at girdle minima	%	44.14	43.34	45.85	2.50	N/A	
Pavilion depth at girdle minima	mm	1.722	1.691	1.789	0.098		
Upper girdle facets angle	°	39.28	36.26	41.33	5.08		PR

Parameter		Avg	Min	Max	Dev	Cut	Sym
Upper girdle facets height	%	9.38	7.99	10.27	2.28		
Upper girdle facets height	mm	0.366	0.312	0.401	0.089		
Point upper girdle facets angle	°	38.35	36.26	41.29	5.03		
Wing upper girdle facets angle	°	40.20	39.31	41.33	2.02		
Star facets angle	°	17.20	16.66	18.19	1.53		VG
Star point facets angle	°	17.39	16.96	18.19	1.22		
Star wing facets angle	°	17.01	16.66	17.42	0.75		
Star : Upper ratio	%	53.85 : 46.15	51.63 : 48.37	57.63 : 42.37	6.01		FR
Lower girdle facets angle	°	38.22	34.57	41.99	7.42		PR
Lower girdle facets height	%	36.26	33.90	39.19	5.29		FR
Lower girdle facets height	mm	1.415	1.323	1.529	0.206		
Point lower girdle facets angle	°	35.83	34.57	36.83	2.26		
Wing lower girdle facets angle	°	40.61	38.97	41.99	3.02		
Depth Girdle Facet	%	81.72	77.14	86.04	8.91	N/A	
Length Girdle Facet	%	77.94	75.67	80.20	4.53		
Total height	%	61.72				N/A	
Table	%	65.83	62.82	68.84	6.02	N/A	PR
Table	mm	3.467	2.451	4.483	2.032		
Culet	%	0.40	0.26	0.55	0.30	N/A	EX
Culet	mm	0.016	0.010	0.022	0.012		
Twist	°	1.27	0.50	2.02	1.52		VG
Girdle thickness: Bezel	%	5.33	2.86	6.69	3.82	N/A	PR
Girdle thickness: Bezel	mm	0.208	0.112	0.261	0.149		
Girdle thickness: Bone	%	5.97	4.94	7.43	2.49		FR
Girdle thickness: Bone	mm	0.233	0.193	0.290	0.097		
Girdle thickness: Valley	%	4.22	2.86	5.44	2.57	N/A	FR
Girdle thickness: Valley	mm	0.165	0.112	0.212	0.100		

Detailed parameters

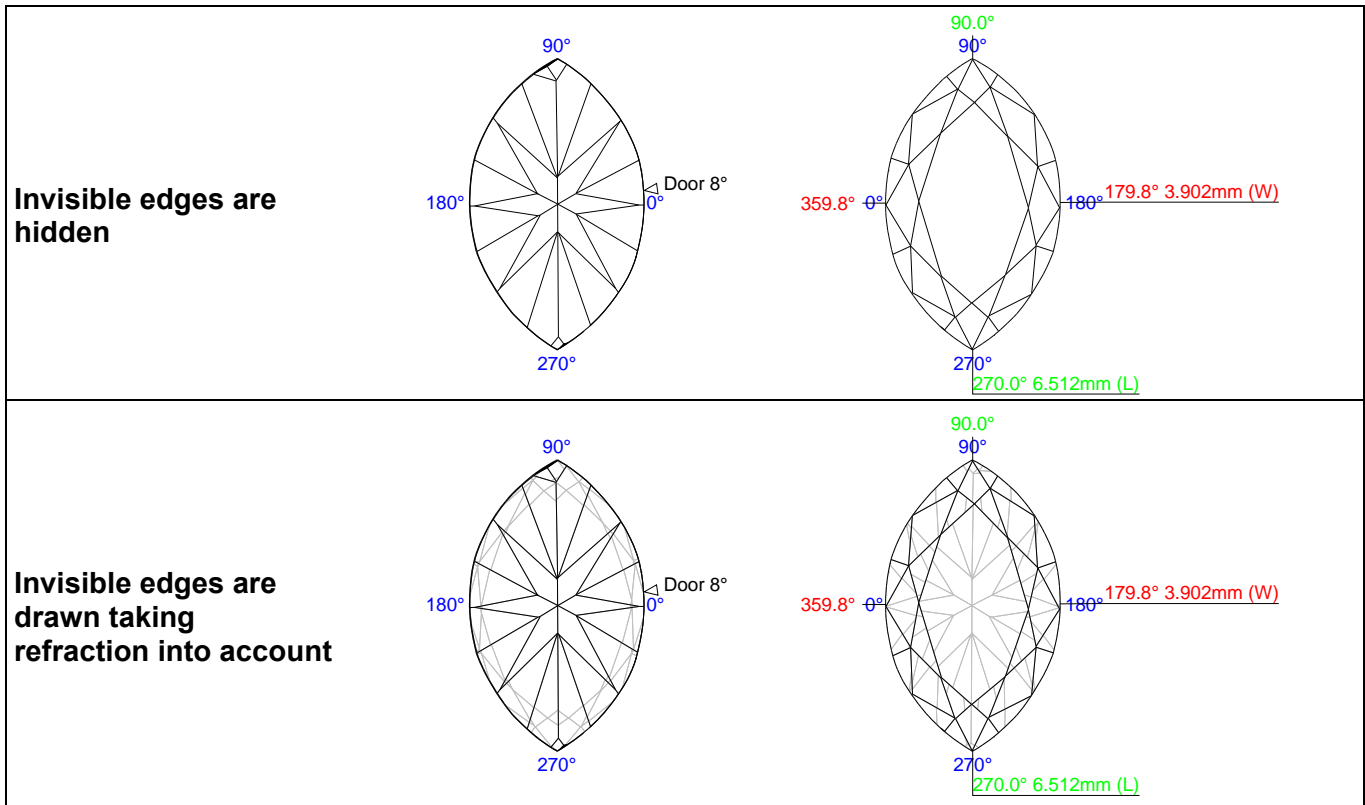
Parameter		1	2	3	4	5	6	7	8
Crown curve angle	°	34.75	35.45						
Crown head angle	°	N/A	N/A	N/A					
Crown point angle	°	25.36	24.82						
Crown wing angle	°	33.45	33.31	33.41	33.58				
Crown curve azimuth	°	358.84	180.57						
Crown head azimuth	°	N/A	N/A	N/A					
Crown point azimuth	°	89.00	270.49						
Crown wing azimuth	°	33.22	148.23	214.49	327.51				
Crown curve height	%	13.03	12.72						
Crown curve height	mm	0.509	0.496						
Crown head height	%	N/A	N/A	N/A					
Crown head height	mm	N/A	N/A	N/A					
Crown point height	%	11.68	12.30						
Crown point height	mm	0.456	0.480						
Crown wing height	%	12.87	12.78	12.23	12.41				
Crown wing height	mm	0.502	0.499	0.477	0.484				
Crown mains angle (obsolete)	°	35.45	34.75						
Crown nock angle (obsolete)	°	25.36	24.82						
Crown other angle (obsolete)	°	33.45	33.31	33.41	33.58	N/A	N/A	N/A	N/A
Crown mains azimuth (obsolete)	°	180.6	358.8						
Crown nock azimuth (obsolete)	°	89.0	270.5						
Crown other azimuth (obsolete)	°	33.2	148.2	214.5	327.5	N/A	N/A	N/A	N/A
Pavilion curve angle	°	40.95	40.56	N/A	N/A				
Pavilion head angle	°	N/A	N/A	N/A					
Pavilion point angle	°	N/A	N/A						
Pavilion wing angle	°	37.07	36.82	36.72	37.24				
Pavilion curve azimuth	°	0.86	182.00	N/A	N/A				
Pavilion head azimuth	°	N/A	N/A	N/A					
Pavilion point azimuth	°	N/A	N/A						
Pavilion wing azimuth	°	32.72	147.49	215.67	325.74				
Pavilion curve height	%	40.43	40.65	N/A	N/A				
Pavilion curve height	mm	1.578	1.586	N/A	N/A				
Pavilion head height	%	N/A	N/A	N/A					
Pavilion head height	mm	N/A	N/A	N/A					
Pavilion point height	%	N/A	N/A						
Pavilion point height	mm	N/A	N/A						
Pavilion wing height	%	41.98	40.29	40.91	41.41				
Pavilion wing height	mm	1.638	1.572	1.596	1.616				
Pavilion mains angle (obsolete)	°	40.95	40.56						
Pavilion nock angle (obsolete)	°	N/A	N/A						
Pavilion other angle (obsolete)	°	37.07	36.82	36.72	37.24	N/A	N/A	N/A	N/A
Pavilion mains azimuth (obsolete)	°	0.9	182.0						
Pavilion nock azimuth (obsolete)	°	N/A	N/A						
Pavilion other azimuth (obsolete)	°	32.7	147.5	215.7	325.7	N/A	N/A	N/A	N/A
Crown height	%	13.22	12.89	12.01	13.09	12.97	12.23	12.52	12.97
Crown height	mm	0.516	0.503	0.469	0.511	0.506	0.477	0.488	0.506
Crown height bone	%	12.50	11.03	13.00	11.89	11.14	11.37	13.05	N/A
Crown height bone	mm	0.488	0.431	0.507	0.464	0.435	0.444	0.509	N/A
Crown height at girdle minima	%	13.54	13.51	12.94	12.13	12.09	13.41	13.95	13.72
		13.15	12.75	12.56	12.52	12.46	13.13	13.88	13.85
Crown height at girdle minima	mm	0.528	0.527	0.505	0.473	0.472	0.523	0.544	0.535
		0.513	0.497	0.490	0.488	0.486	0.512	0.542	0.540
Pavilion depth	%	42.80	42.63	43.15	42.96	42.77	43.48	N/A	N/A
Pavilion depth	mm	1.670	1.663	1.684	1.676	1.669	1.697	N/A	N/A
Pavilion depth bone	%	43.13	43.26	42.63	42.98	45.61	45.42	43.23	N/A
Pavilion depth bone	mm	1.683	1.688	1.663	1.677	1.780	1.772	1.687	N/A
Pavilion depth at girdle minima	%	43.68	43.69	43.45	43.45	43.34	43.98	43.71	43.57
		43.64	43.55	45.44	45.85	45.47	45.25	44.43	43.72
Pavilion depth at girdle minima	mm	1.704	1.705	1.695	1.695	1.691	1.716	1.706	1.700
		1.703	1.699	1.773	1.789	1.774	1.765	1.734	1.706
Upper girdle facets angle	°	39.97	39.31	37.88	37.74	39.44	41.29	40.55	41.33
		40.08	39.84	37.16	36.26	38.22	38.83	39.59	40.92
Upper girdle facets height	%	9.83	9.74	9.13	8.48	7.99	9.14	10.26	10.00
		9.86	9.41	8.89	8.79	8.66	9.32	10.25	10.27
Upper girdle facets height	mm	0.384	0.380	0.356	0.331	0.312	0.357	0.400	0.390
		0.385	0.367	0.347	0.343	0.338	0.364	0.400	0.401
Upper girdle facets azimuth	°	4.5	27.3	37.7	59.1	118.2	141.3	155.1	174.8
		185.9	207.9	218.5	240.7	301.3	322.3	333.9	352.4
Point upper girdle facets angle	°	37.88	37.74	39.44	41.29	37.16	36.26	38.22	38.83
Wing upper girdle facets angle	°	39.97	39.31	40.55	41.33	40.08	39.84	39.59	40.92
Point upper girdle facets azimuth	°	37.7	59.1	118.2	141.3	218.5	240.7	301.3	322.3
Wing upper girdle facets azimuth	°	4.5	27.3	155.1	174.8	185.9	207.9	333.9	352.4

Parameter		1	2	3	4	5	6	7	8
Star facets angle	°	17.19	16.96	18.19	17.42	16.66	17.06	17.34	16.78
Star : Upper ratio	%	52.62 : 47.38	54.49 : 45.51	57.63 : 42.37	52.04 : 47.96	51.71 : 48.29	54.70 : 45.30	56.01 : 43.99	51.63 : 48.37
Star facets azimuth	°	17.9	47.7	135.9	163.6	198.9	230.3	311.5	343.1
Star point facets angle	°	16.96	18.19	17.06	17.34				
Star wing facets angle	°	17.19	17.42	16.66	16.78				
Star point facets azimuth	°	47.7	135.9	230.3	311.5				
Star wing facets azimuth	°	17.9	163.6	198.9	343.1				
Lower girdle facets angle	°	41.75 41.41	39.97 39.44	36.75 36.45	34.57 35.43	34.63 35.58	36.43 36.83	38.97 39.99	41.33 41.99
Lower girdle facets height	%	34.79 33.96	34.57 35.02	36.86 38.61	37.14 39.19	37.38 38.72	37.89 37.90	34.11 35.43	33.90 34.78
Lower girdle facets height	mm	1.357 1.325	1.349 1.366	1.438 1.506	1.449 1.529	1.459 1.511	1.478 1.479	1.331 1.382	1.323 1.357
Lower girdle facets azimuth	°	7.2 188.8	22.8 206.1	41.0 227.9	51.2 233.2	130.8 307.9	139.2 314.3	154.7 334.6	175.0 351.1
Point lower girdle facets angle	°	36.75	34.57	34.63	36.43	36.45	35.43	35.58	36.83
Wing lower girdle facets angle	°	41.75	39.97	38.97	41.33	41.41	39.44	39.99	41.99
Point lower girdle facets azimuth	°	41.0	51.2	130.8	139.2	227.9	233.2	307.9	314.3
Wing lower girdle facets azimuth	°	7.2	22.8	154.7	175.0	188.8	206.1	334.6	351.1
Depth Girdle Facet	%	79.19 77.28	78.67 79.93	84.53 84.77	85.18 85.16	86.04 84.89	85.75 83.56	77.28 78.96	77.14 79.13
Length Girdle Facet	%	77.50 75.69	76.95 78.26	78.50 78.92	79.06 79.25	80.20 78.87	79.94 77.74	75.82 77.29	75.67 77.47
Table	%	62.82		68.84					
Table	mm	2.451		4.483					
Twist	°	2.02	0.50	0.74	1.43	1.18	1.77	N/A	N/A
Girdle Bezel	%	5.70	5.90	5.27	5.72	6.69	2.86	5.20	N/A
Girdle Bezel	mm	0.222	0.230	0.206	0.223	0.261	0.112	0.203	N/A
Girdle Bone	%	6.09	7.43	6.09	6.85	4.97	4.94	5.45	N/A
Girdle Bone	mm	0.238	0.290	0.238	0.267	0.194	0.193	0.213	N/A
Girdle Valley	%	4.57 4.06	4.65 2.86	5.43 2.87	4.36 3.73	4.08 3.41	4.45 4.19	5.00 N/A	5.44 N/A
Girdle Valley	mm	0.178 0.159	0.181 0.112	0.212 0.112	0.170 0.145	0.159 0.133	0.173 0.164	0.195 N/A	0.212 N/A

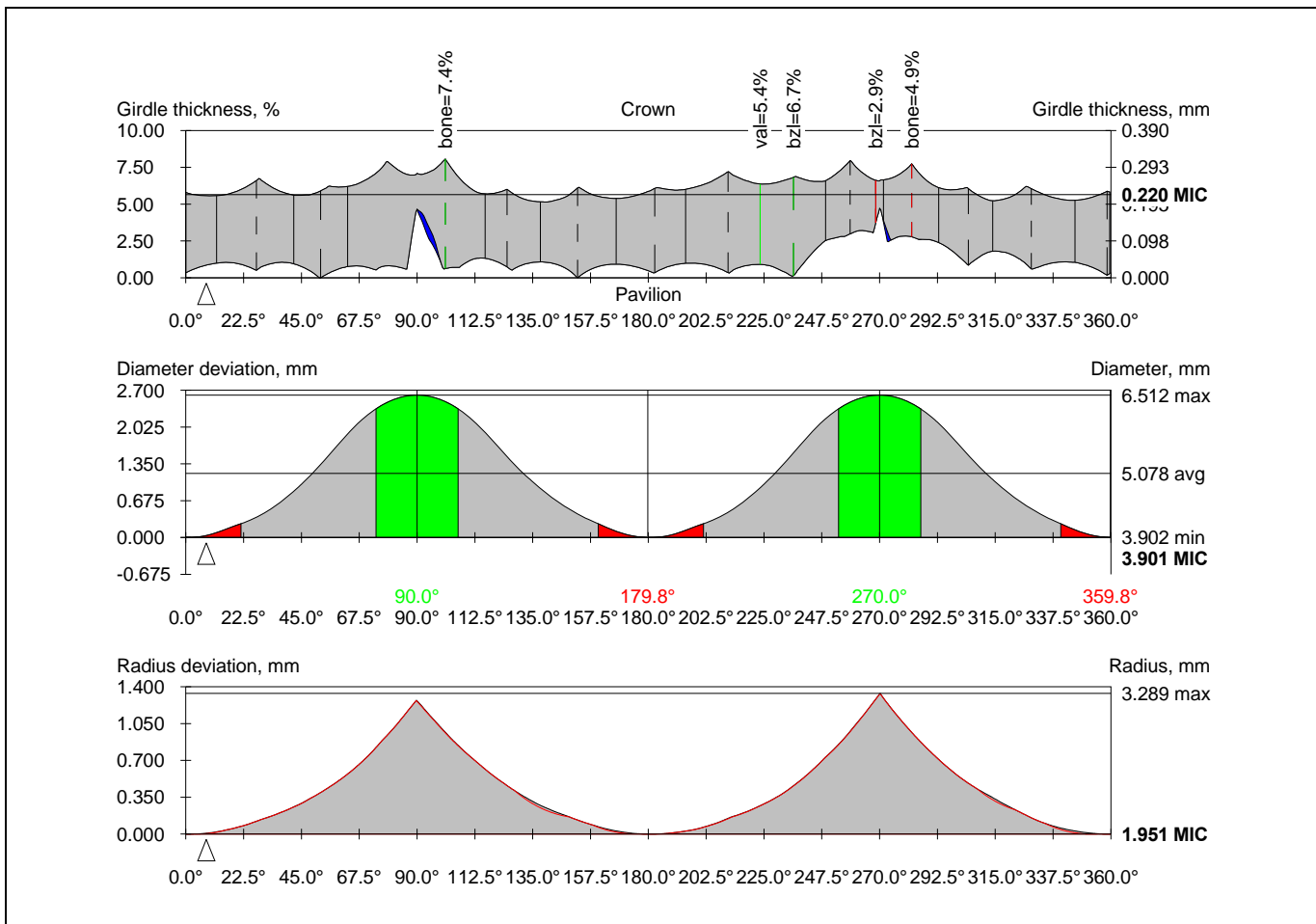
Offset		Distance	Width wise	Length wise
Culet-Table offset by table axis	%	0.89 ± 0.32	0.82	0.33
Culet-Table offset by table axis	mm	0.035 ± 0.013	0.032	0.013
Girdle-Culet offset by table axis	%	0.51 ± 0.31	0.51	0.06
Girdle-Culet offset by table axis	mm	0.020 ± 0.012	0.020	0.002
Girdle-Table offset by table axis	%	0.50 ± 0.28	0.31	0.39
Girdle-Table offset by table axis	mm	0.019 ± 0.011	0.012	0.015
Girdle to table-culet line offset	%	0.33		
Girdle to table-culet line offset	mm	0.013		

Culet shift ratio by width & length	
Width	3.902 mm, 100%
Width-wise culet shift ratio	1.971 mm, 50.51 %
Length-wise culet shift ratio	3.258 mm, 83.51 %
Length	6.512 mm, 100%
Length-wise culet shift ratio	3.258 mm, 50.04 %
	3.254 mm, 49.96 %

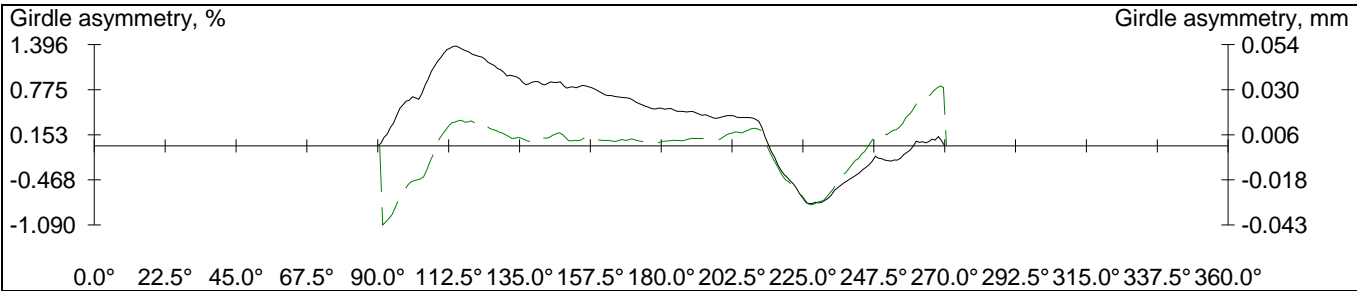
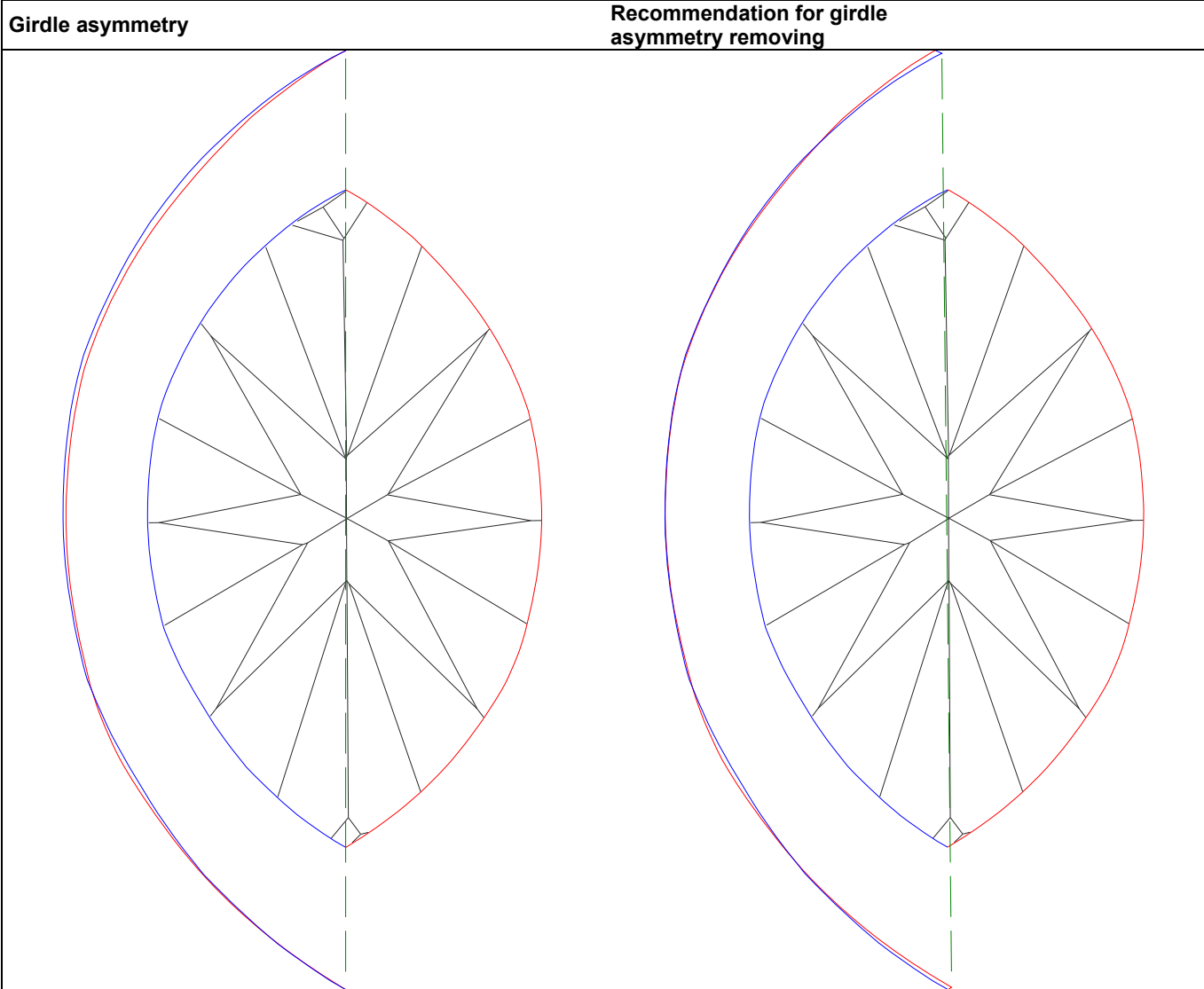
Crown and pavilion views of the diamond with indication of Width & Length



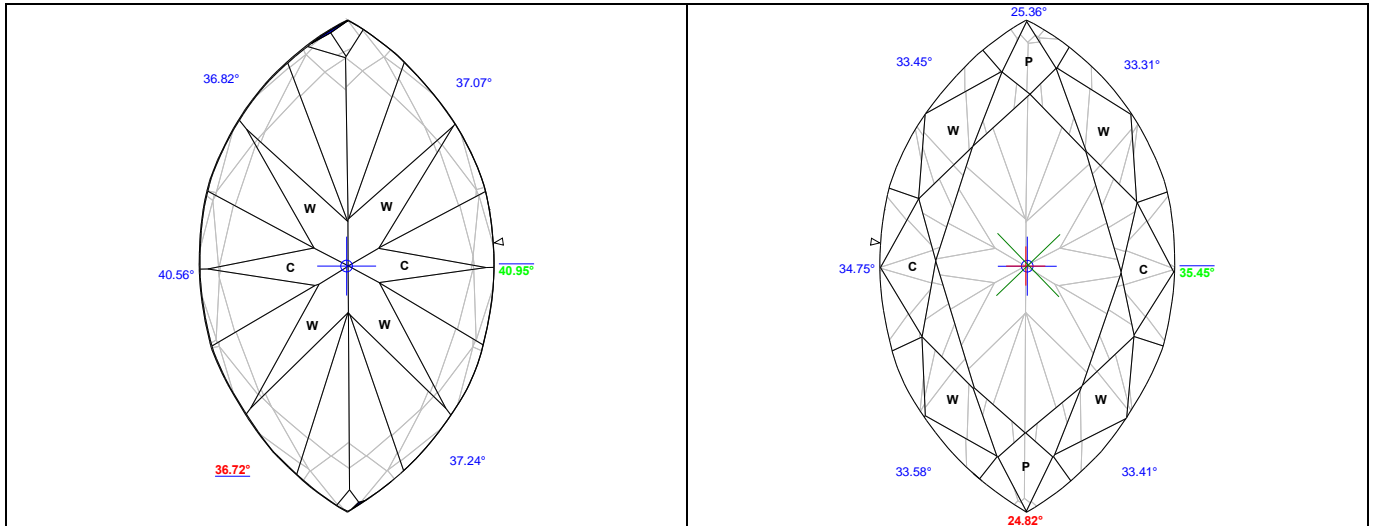
Plots



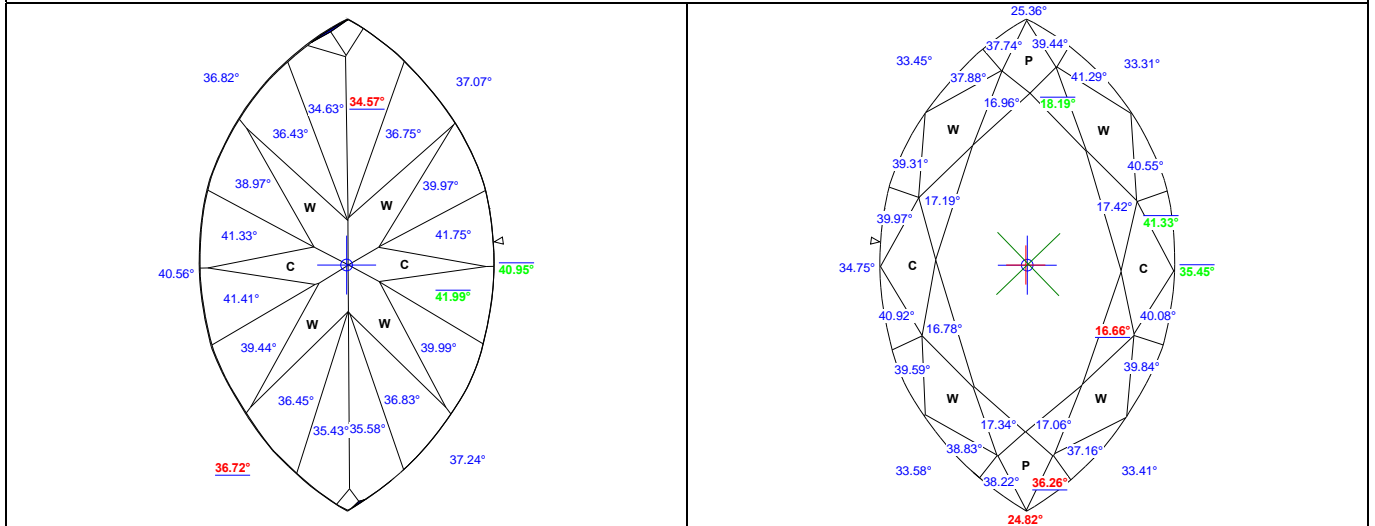
Girdle asymmetry



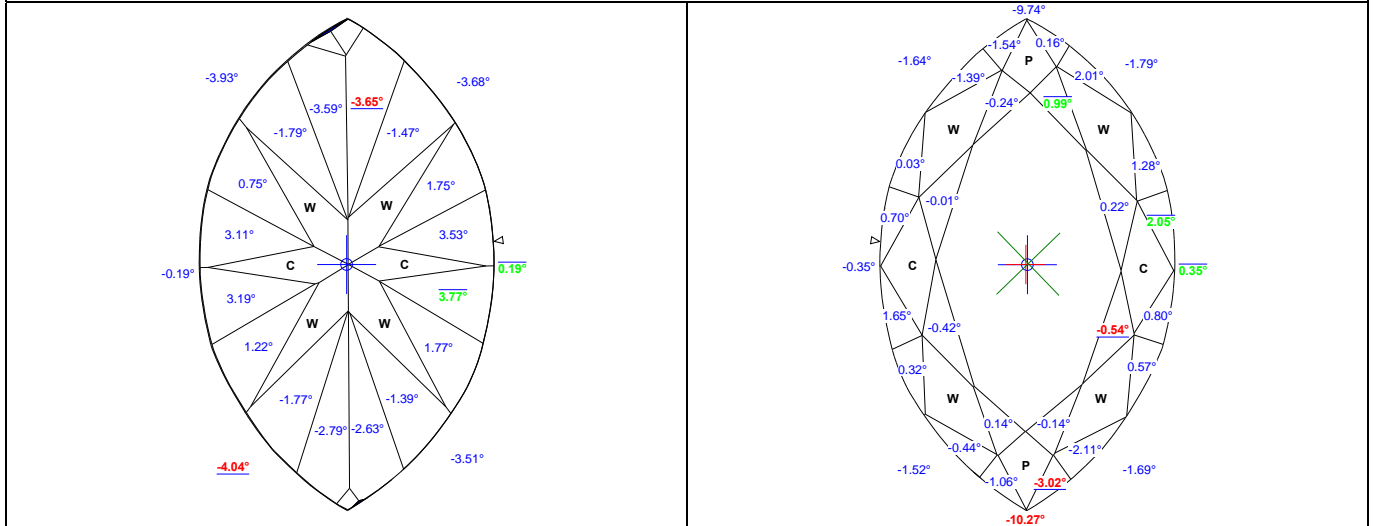
Facets slope and azimuth angles



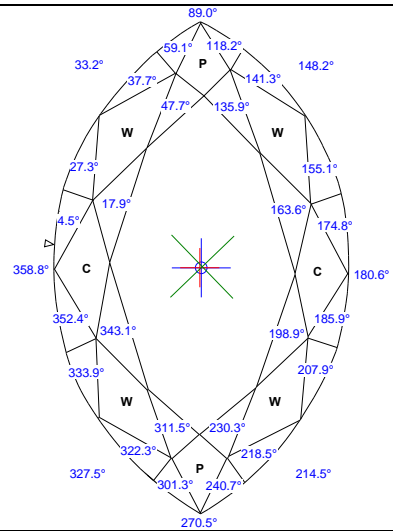
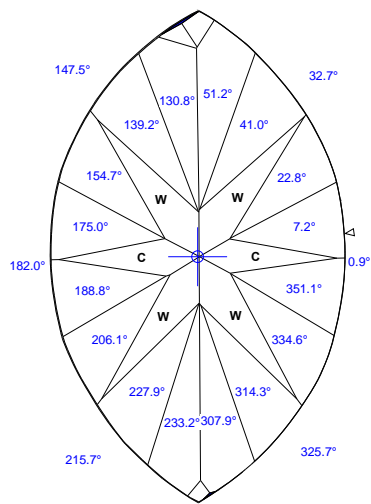
**Pavilion and crown views of the diamond with indication of main facets slope angles
Invisible edges are drawn taking refraction into account**



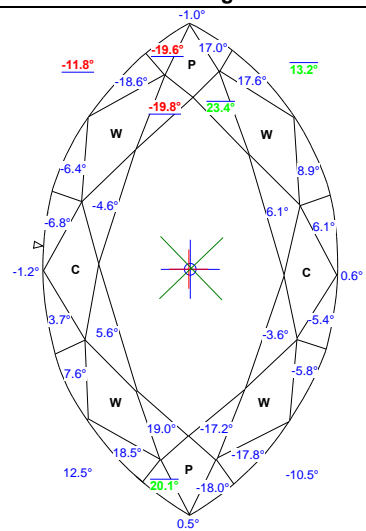
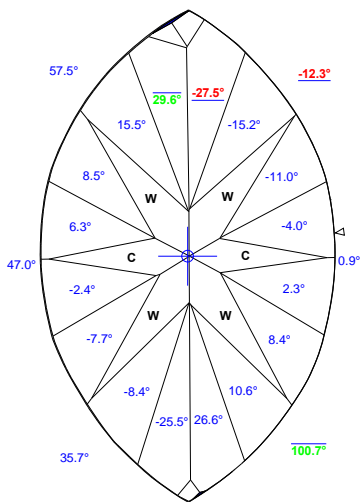
Pavilion and crown views of the diamond with indication of facets slope angles



Pavilion and crown views of the diamond with indication of deviation of facets slope angles from the average values

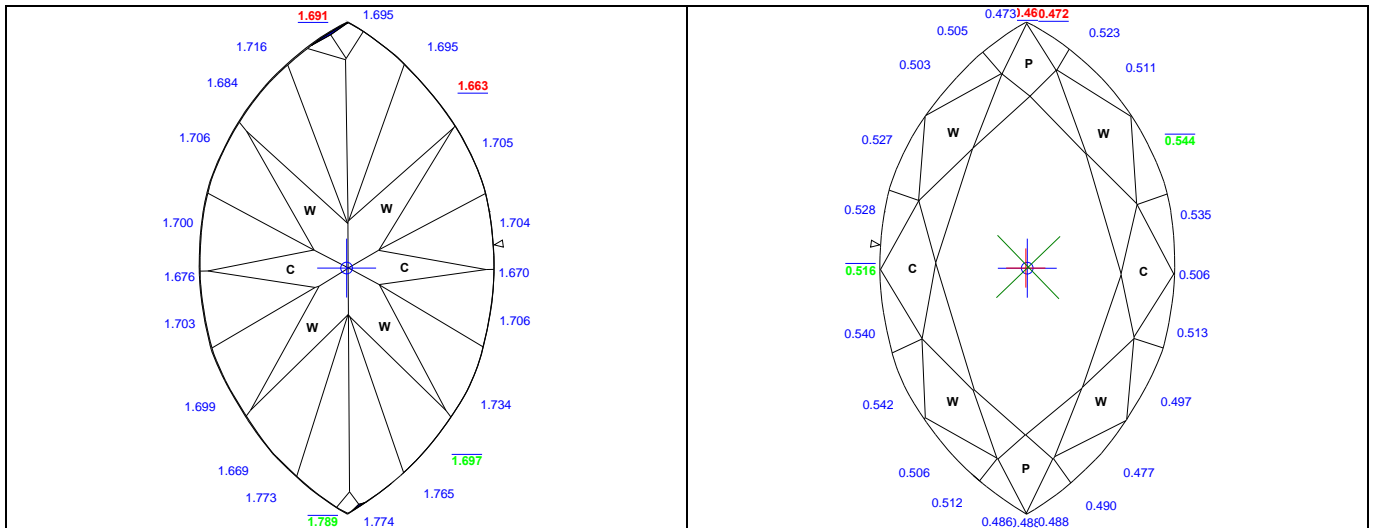


Pavilion and crown views of the diamond with indication of facets azimuth angles

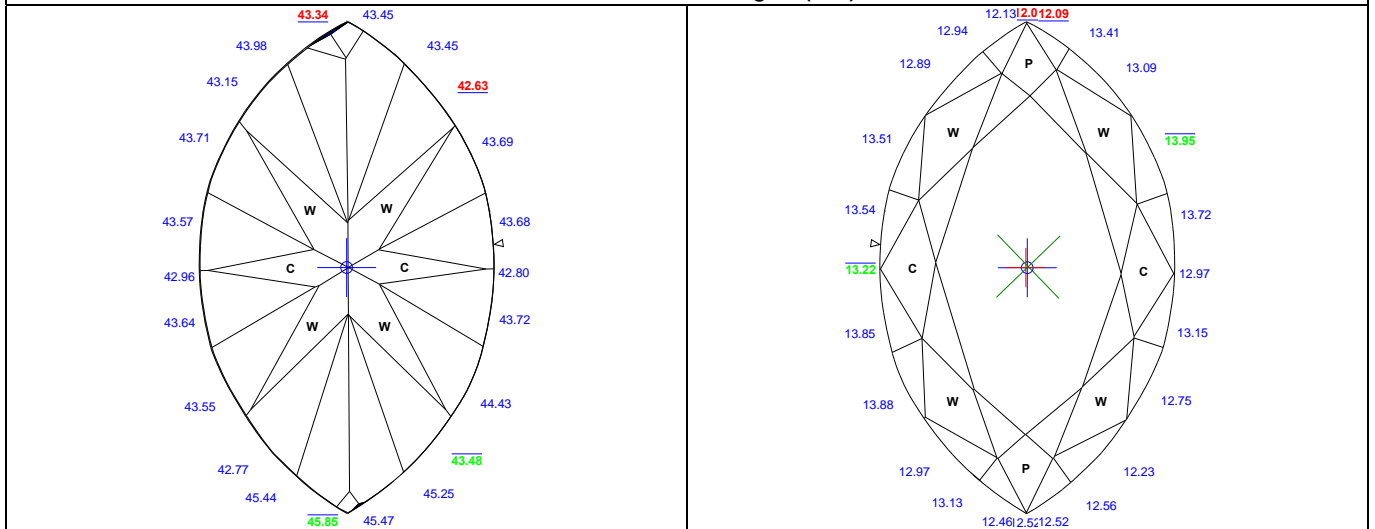


Pavilion and crown views of the diamond with indication of deviation of facets azimuth angles from their ideal positions for the round brilliant

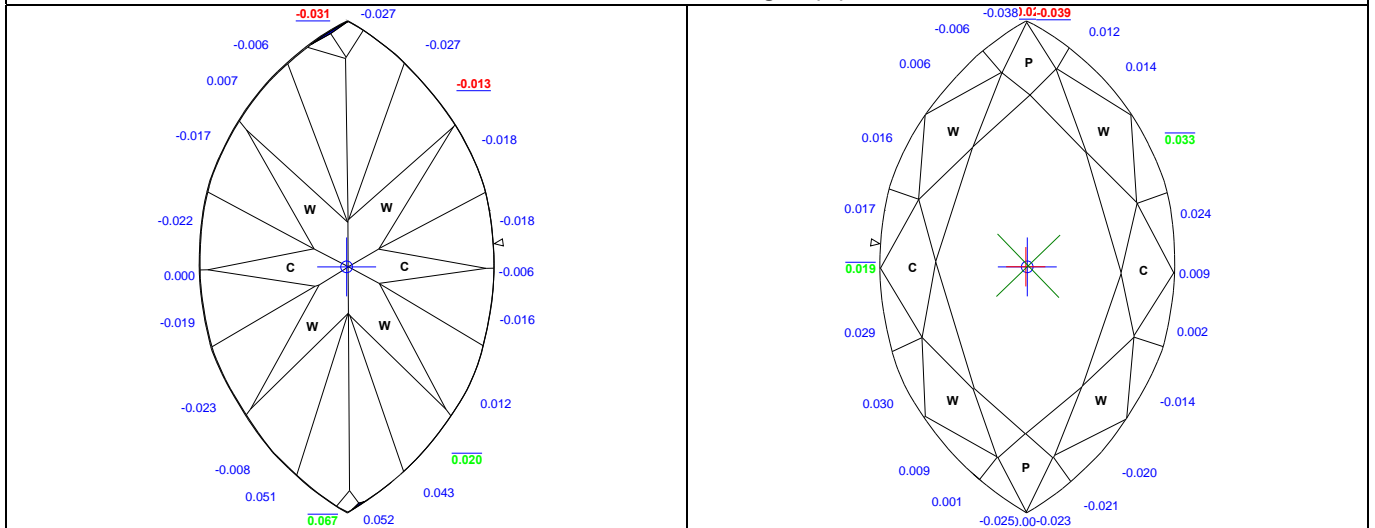
Crown and Pavilion heights



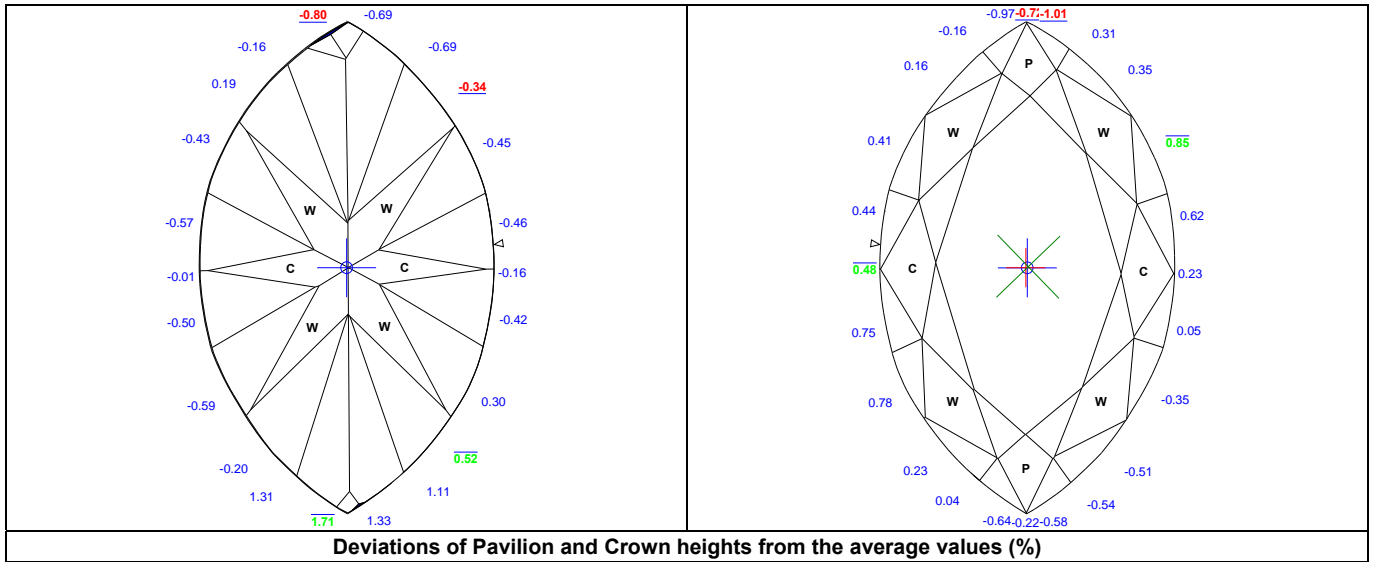
Pavilion and Crown heights (mm)



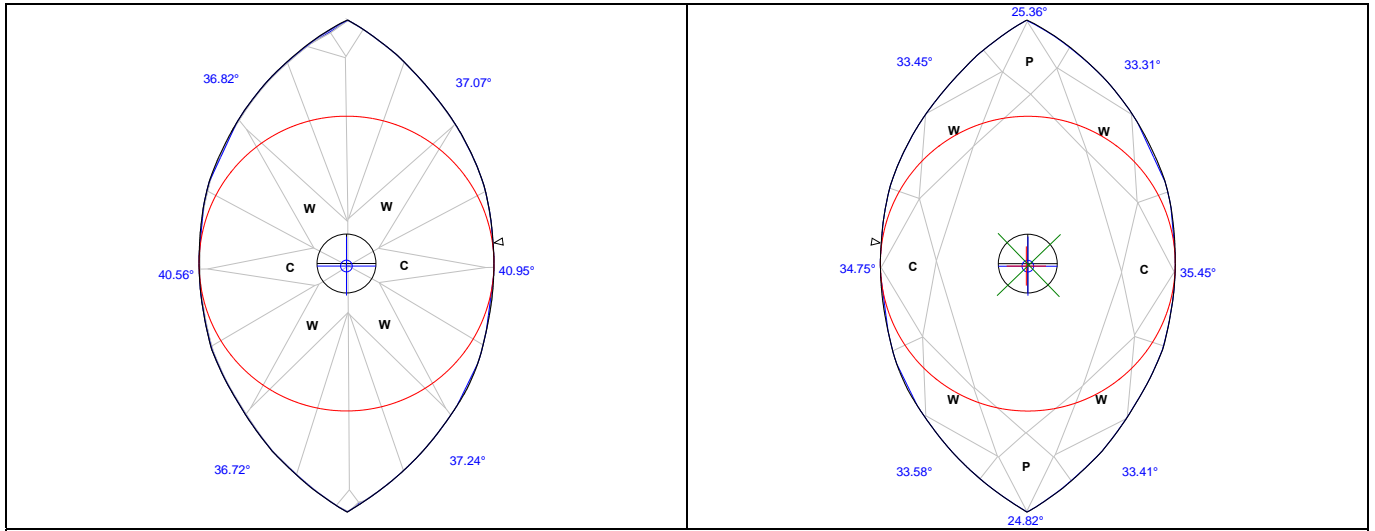
Pavilion and Crown heights (%)



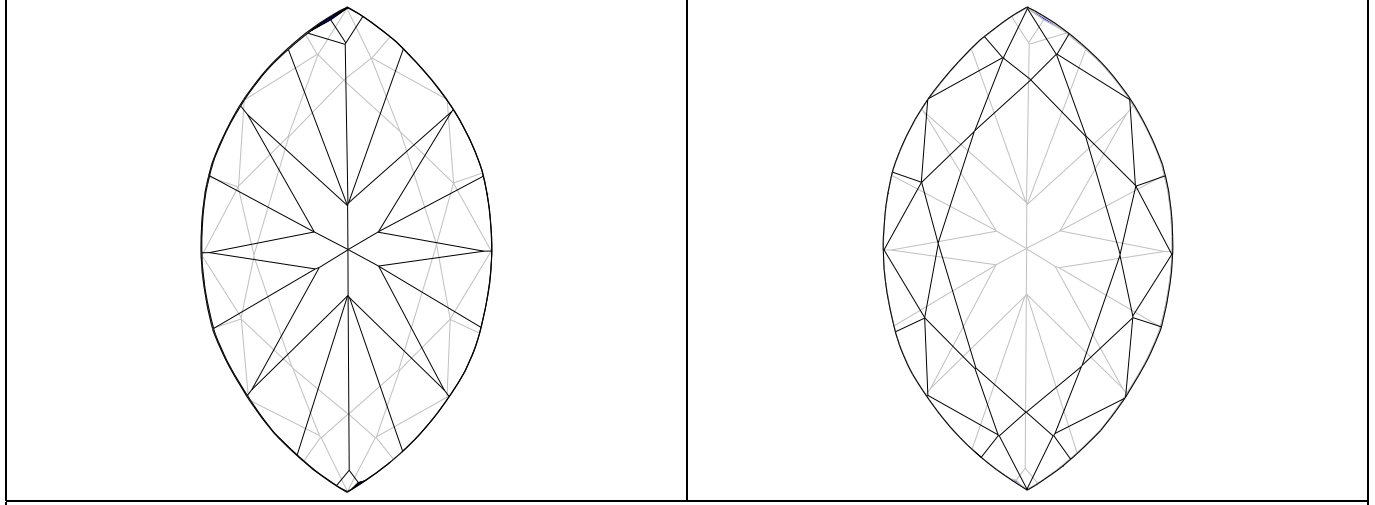
Deviations of Pavilion and Crown heights from the average values (mm)



Additional Illustrations



Pavilion and crown views of the diamond with indication of the maximum circle that may be inscribed (MIC) in the girdle outline along with the section of the model in the circle's plane



Pavilion and crown views of the diamond with indication of invisible edges without refraction

- Girdle center**
- Culet center**
- Table center**
- MIC center**